

## **815 KAR 20:150. Inspection and tests.**

RELATES TO: KRS 318.090, 318.130, 318.134, 318.140, 318.160, 318.170

STATUTORY AUTHORITY: KRS 198B.040(10), 318.130

NECESSITY, FUNCTION, AND CONFORMITY: KRS 318.130 requires the department to promulgate an administrative regulation establishing the Kentucky State Plumbing Code. KRS 318.160 requires a person who constructs, installs, or extensively alters any plumbing, sewerage, or water supply system of any public building or establishment to obtain approval of the department in writing. This administrative regulation establishes the requirements for the tests and inspections that are necessary in order to ensure compliance with 815 KAR Chapter 20, the Kentucky State Plumbing Code.

Section 1. Required Inspections and Tests. (1) Required inspections. The department shall inspect the following to ensure compliance with the code:

- (a) The water distribution system;
- (b) The soil, waste, and vent system;
- (c) The fixtures and fixture traps;
- (d) Appurtenances; and
- (e) All connections in a plumbing system.

(2) Required tests. Tests shall be made separately or as follows:

- (a) The house sewer and its branches from the property line to the house drain;
- (b) The house drain including its branches;
- (c) The soil, waste, and vent system;
- (d) Inside rain water conductors; and
- (e) The final inspection and air test which shall include the complete plumbing system as required by Section 3(2) of this administrative regulation, exclusive of the house sewer.

(3) Rough-in inspection.

(a) The plumbing system shall not be covered until it has been inspected, tested, and approved.

(b) A rough-in inspection shall be conducted prior to the covering or concealment of the plumbing system.

(c) If any part of a plumbing system is covered or concealed before being inspected, tested, and approved, it shall be uncovered, or unconcealed and tested as required.

(4) Condemned buildings. In buildings condemned by other authorities because of unsanitary conditions of the plumbing system, necessary alterations shall be considered a new plumbing system.

(5) Tests of alterations, extensions, or repairs. Any alterations, repairs, or extensions that require more than ten (10) feet of soil, waste, or vent piping shall be inspected and tested as required by Section 3(2) of this administrative regulation.

Section 2. Permit Holder Requirements. The person procuring the plumbing permit shall:

- (1) Furnish all equipment, material, and labor necessary for inspections and tests;
- (2) Notify the department representative and request a rough-in inspection for the plumbing system prior to the plumbing system being concealed or covered within the floors or walls of a building; and
- (3) Notify a department representative and request a final inspection and air test upon completion of the installation.

Section 3. Testing of Systems. (1) The water distribution system, as well as the water ser-

vice, shall be:

(a) Tested with air or water under a pressure of not less than the maximum working pressure under which it is to be used; and

(b) Free from leaks.

(2)(a) Except as provided in subsection (3) of this section, a water test shall be performed:

1. On the entire soil, waste, and vent system; or

2. In sections.

(b) If it is applied to the entire system, all openings shall be closed, except the highest opening and the system shall be filled with water to the point of overflow.

(c) If the system is tested in sections, each opening shall be tightly plugged, except the highest opening and it shall be tested with not less than a ten (10) foot head of water. In testing successive sections, at least the upper ten (10) feet of the preceding section shall be retested.

(3) In lieu of a water test, an air pressure test may be used by attaching an air compressor or test apparatus to any suitable opening. All other inlets and outlets to the system shall be closed, forcing air into the system until there is a uniform pressure of five (5) pounds per square inch (PSI). The pressure shall be maintained for fifteen (15) minutes.

(4) After the plumbing fixtures have been set and their traps filled with water and before the building is occupied, the final air test shall test the entire soil, waste, and vent system including the fixtures and appurtenances, other than a house sewer, by connecting an air machine to any suitable opening or outlet and applying air pressure equivalent to a one (1) inch water column. It shall be maintained for at least a fifteen (15) minute period. If there are no leaks or forcing of trap seals as may be indicated by the functioning of a drum, float, or water column, the system shall be determined as airtight.

(5) A garage drainage system shall be tested in the same manner as the soil, waste, and vent system.

(6) A house sewer shall be tested by a water, air, or smoke test. A four (4) inch test tee or Y connection shall be provided at the property line for testing.

(7) The department may require the removal of any clean-outs to ascertain if the pressure has reached all parts of the system

(8) A building sewer not drained by gravity shall have a minimum of twenty-four (24) inches of cover and shall be tested with five (5) pounds per square inch for a period of fifteen (15) minutes.

(9) Inside rain water conductors shall be tested with water, air, or smoke test.

Section 4. Defective Work. If an inspection or a test indicates defective work or material, it shall be replaced and the inspection and the test repeated.

Section 5. Testing Defective Plumbing. An air test shall be used in testing the condition of a plumbing system if there is reason to believe it has become defective.

Section 6. Certificate of Approval. The department shall issue a certificate of approval upon the satisfactory completion and final test of the plumbing system. (PC-11-1; 1 Ky.R. 487; eff. 3-12-1975; 2 Ky.R. 459; 3 Ky.R.362; eff. 9-1-1976; Recodified from 401 KAR 1:110, 7-5-1978; 11 Ky.R. 77; eff. 8-7-1984; 20 Ky.R. 1394; eff. 1-10-1994; 27 Ky.R. 234; 776; eff. 9-11-2000; 33 Ky.R. 3277; 4183; eff. 7-6-2007; 46 Ky.R. 1686, 2446; eff. 6-2-2020.)